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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): David A. Akerman and Morio Yamada

DOCKET NO.: 121931.00022

U.S. APPLICATION NO.: 10/512,106

FILED: 10/21/2004

INT'L APPLICATION NO.: PCT/GB03/001695

FILED: 04/23/2003

TITLE: "Filter Elements"

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Commissioner for Patents  
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Alexandria, VA 22313-1450

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## CERTIFICATE OF MAILING

I hereby certify that the items listed below are being deposited with the United States Postal Service utilizing the "**EXPRESS MAIL POST OFFICE TO ADDRESSEE**" service, mailing label number **EV 541708628 US**, under 37 CFR 1.10 in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 4<sup>th</sup> day of March, 2005.

Kathleen C. Tennant  
Kathleen C. Tennant

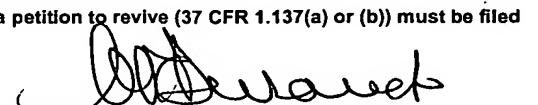
Enclosed are:

- Itemized return postcard
- A check in the amount of \$\_\_\_\_ to cover the filing fees.
- Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 USC 371 (in duplicate)
- Fee Transmittal sheet (in duplicate)
- Declaration for Utility or Design Patent Application
- A specification of the invention, claims and abstract.
- 2- Power of Attorney and Correspondence Address Indication Form
- 2- Statement Under 37 CFR 3.73(b)
- Assignment Agreement and Recordation Cover Sheet
- Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i)
- \_\_\_\_ sheets of drawings.
- Information Disclosure Statement

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 121931.00022
INTERNATIONAL APPLICATION NO. PCT/GB03/001695	INTERNATIONAL FILING DATE 23 April 2003 (23.04.2003)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/512,106
PRIORITY DATE CLAIMED 23 April 2002 (23.04.2002)		
TITLE OF INVENTION Filter Elements		
APPLICANT(S) FOR DO/EO/US David A. Akerman and Morio Yamada		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li><input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(l)). The submission must include items (5), (6), (9) and (21) indicated below. (<b>Items 5, 6 and 21 were previously submitted.</b>)</li> <li><input type="checkbox"/> The US has been elected (Article 31).</li> <li><input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li><input type="checkbox"/> Is attached hereto (required only if not communicated by the International Bureau).</li> <li><input type="checkbox"/> has been communicated by the International Bureau.</li> <li><input type="checkbox"/> Is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li><input type="checkbox"/> is attached hereto.</li> <li><input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li><input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li><input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li><input type="checkbox"/> have been communicated by the International Bureau.</li> <li><input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li><input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li><input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li><input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> <li><input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li><input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li><input type="checkbox"/> A preliminary amendment.</li> <li><input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li><input type="checkbox"/> A substitute specification.</li> <li><input checked="" type="checkbox"/> A power of attorney and/or change of address letter. (2)</li> <li><input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li><input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li><input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li><input checked="" type="checkbox"/> Other items or information: (2) Statements Under 37 CFR 3.73(b)</li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER																																
10/512,106		PCT/GB03/001695	121931.00022																																
The following fees have been submitted <table border="1"> <tr> <td colspan="2">21. <input type="checkbox"/> Basic national fee.....</td> <td>\$300</td> <td>CALCULATIONS</td> <td>PTO USE ONLY</td> </tr> <tr> <td colspan="2">22. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td>\$100 \$200</td> <td>\$</td> <td>\$</td> </tr> <tr> <td colspan="2">All other situations.....</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">23. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td>\$100</td> <td>\$</td> <td>\$</td> </tr> <tr> <td colspan="2">International Search Report prepared and provided to the Office.....</td> <td>\$400</td> <td></td> <td></td> </tr> <tr> <td colspan="2">All other situations.....</td> <td>\$500</td> <td></td> <td></td> </tr> </table>				21. <input type="checkbox"/> Basic national fee.....		\$300	CALCULATIONS	PTO USE ONLY	22. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....		\$100 \$200	\$	\$	All other situations.....					23. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....		\$100	\$	\$	International Search Report prepared and provided to the Office.....		\$400			All other situations.....		\$500			\$	
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All other situations.....		\$500																																	
<b>TOTAL OF 21, 22 and 23 =</b>				\$																															
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. <table border="1"> <tr> <th>Total Sheets</th> <th>Extra Sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250</td> </tr> </table>				Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	/50 =		x \$250	\$																							
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Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$																															
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	\$																														
Total claims		- 20 =		x \$ 50	\$																														
Independent claims		- 3 =		x \$200	\$																														
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360	\$																														
				<b>TOTAL OF ABOVE CALCULATIONS =</b>	\$																														
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.																																			
				<b>SUBTOTAL =</b>	\$																														
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+ \$																															
				<b>TOTAL NATIONAL FEE =</b>	\$																														
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$																															
				<b>TOTAL FEES ENCLOSED =</b>	\$																														
				Amount to be refunded:	\$																														
				Amount to be charged:	\$																														
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. <u>17-0055</u> in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>17-0055</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.																																			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.																																			
SEND ALL CORRESPONDENCE TO: Quarles & Brady Streich Lang LLP One South Church Avenue, Suite 1700 Tucson, AZ 85701																																			
520-770-8700 520-623-2418 Fax																																			
 SIGNATURE Antonio R. Durando NAME 28,409 REGISTRATION NUMBER																																			